



Title: DSP-4 DUAL-SPECIFICITY PHOSPHATASE

Express Mail No. EL755730737US

Inventor(s): Ralf M. Luche and Bo Wei      Serial No. 09/544,517      Docket No. 200125.410

### DSP4, ENCODED BY 651 BASE PAIRS

ACATTGCATC CCTGGGATAA ACGGACCTGG ACAACTCACT CTCTGGTCT GTGGCTGCTG CGGTTACCTG GATGGGCGAA CACCTCTGAG  
GCTGGCTTG TTACCTGGC AATAAGGGAC TAGCAGTTCA GCCGTTTCT ATGCCCTGCTG GATTTGTTTG TATTTGTTCC CAGCCACTGC  
TCATGTAATG TACTCCCTTA ACCAGGAAAT TAAAGCATT C TCCCAGGAATA ATCTCAGGAA GCAATGCACC AGGGTGACAA CGCTAAGCTGG  
AAAGAAAATT ATAGAAACAT GGAAAGATGC CAGAATTAT CAT GTTGTGGAAG AAGTAGAGCC GAGCAGTGGG GGTGGTTGTG GTTATGTGCA  
GGACCTTAGC TCGGACCTGC AAGTTGGCGT TATTAAGCCA TGTTGCTCC TAGGGTCACA AGATGCTGCT CATGATTTGG ATACACTGAA  
AAAGAATAAG GTGACTCATA TTCTTAATGT TGCAATATGGA GTTGGAAATG CTTTCCTCAG TGACTTTACA TATAAGAGCA TTTCTATATT  
GGATCTGCCT GAAACCAACA TCCTGTCTTA TTTTCCAGAA TGTTTGAAAT TTATTGAAGA AGCAAAAAGA AAAGATGGAG TGGTTCTGT  
TCATTGTAAT GCAGGGCGTT CCAGGGCTGC TGCAATTGTA ATAGGTTTCC TGATGAATT TGAAACAAACC TCATTTACCA GTGCTTTTC  
TTTGGTGAAA AATGCAAGAC CTTCCATATG TCCAAATTCT GGCTCATGG AGCAGCTTCG TACATATCAA GAGGGCAAAG AAAGCAATAA  
GTGTGACAGA ATACAGGAGA ACAGTTCATG AGTTGCATTG TAGCAGACAA TGGACAACCTG TAGTTTCTGA ATTGACTTCT ATGCCATCT  
TTTCCCTTT TTGGAGAGTA GACTAGCAAA ACTCCCTTT TTCTCTTGCC TTTTTATGC ATAAATGGAG GTCAATCTGA TTGTCTGAC  
CTACTGTATA AGTAAATTTC AAATGTCTT ACCTTCTCTT TGTTATTATA ATGTGTGATT AAATGCTTT TTAAATTGCT AAGGGAAAAT  
AAAAAAA

*Fig. 1*

### TRANSLATED, 217 AMINO ACIDS

MYSLNQEIKAFSRNNLRKQCTRVTTLGKKIETWKDARIHVVEEVEPSSGGGCGYVQDLSSDLQVGVVKPWL  
LLGSQDAAHLDLTLKKNKVTHILNVAYVENAFLSDFTYKSISILDLPETNILSYFPECFEFIEEAKRKDGVV  
LVHCNAGVSRAAIIVIGFLMNSEQTSFTSAFSLVKNARPSICPNSGFMEQLRTYQEGKESNKCDRIQENSS

*Fig. 2*



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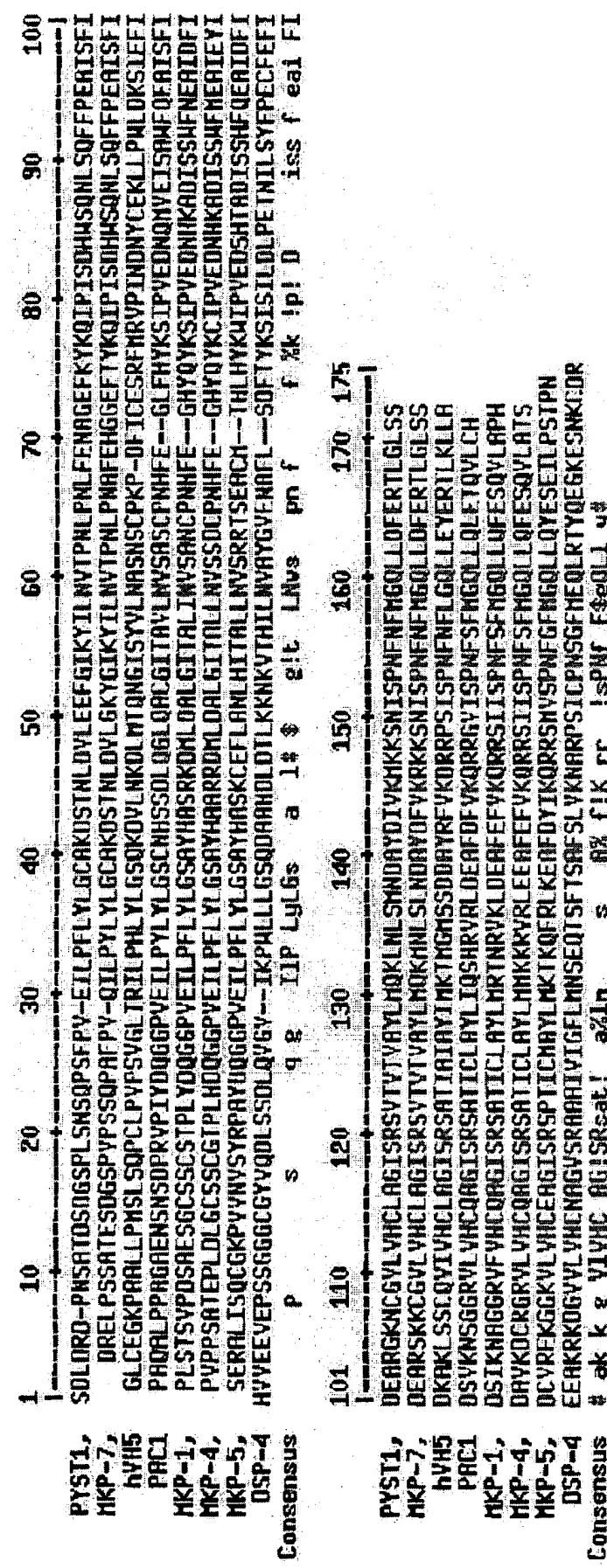


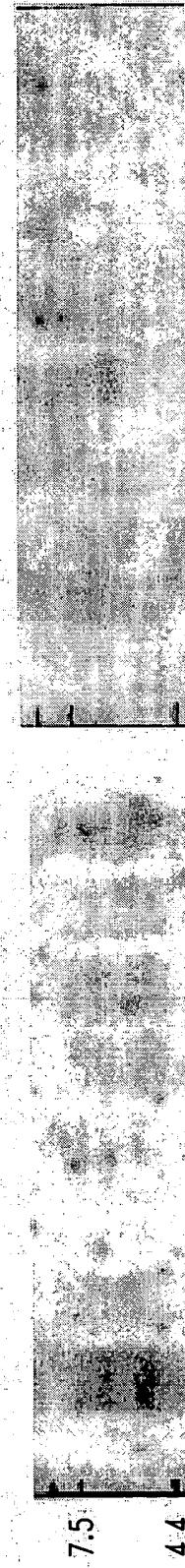
Fig. 3



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# DSP-4

## Northern blot analysis



- He = Heart      • Ti = Liver
- Br = Brain      • SM = Skel. Muscle
- Pl = Placenta    • Ki = Kidney
- Lu = Lung       • Pa = Pancreas
- Sp = Spleen
- Th = Thymus
- Pr = Prostate
- Te = Testis
- Ov = Ovaries
- ST = Small Intestine
- Co = Colon
- PB = Periph. Blood

Fig. 4